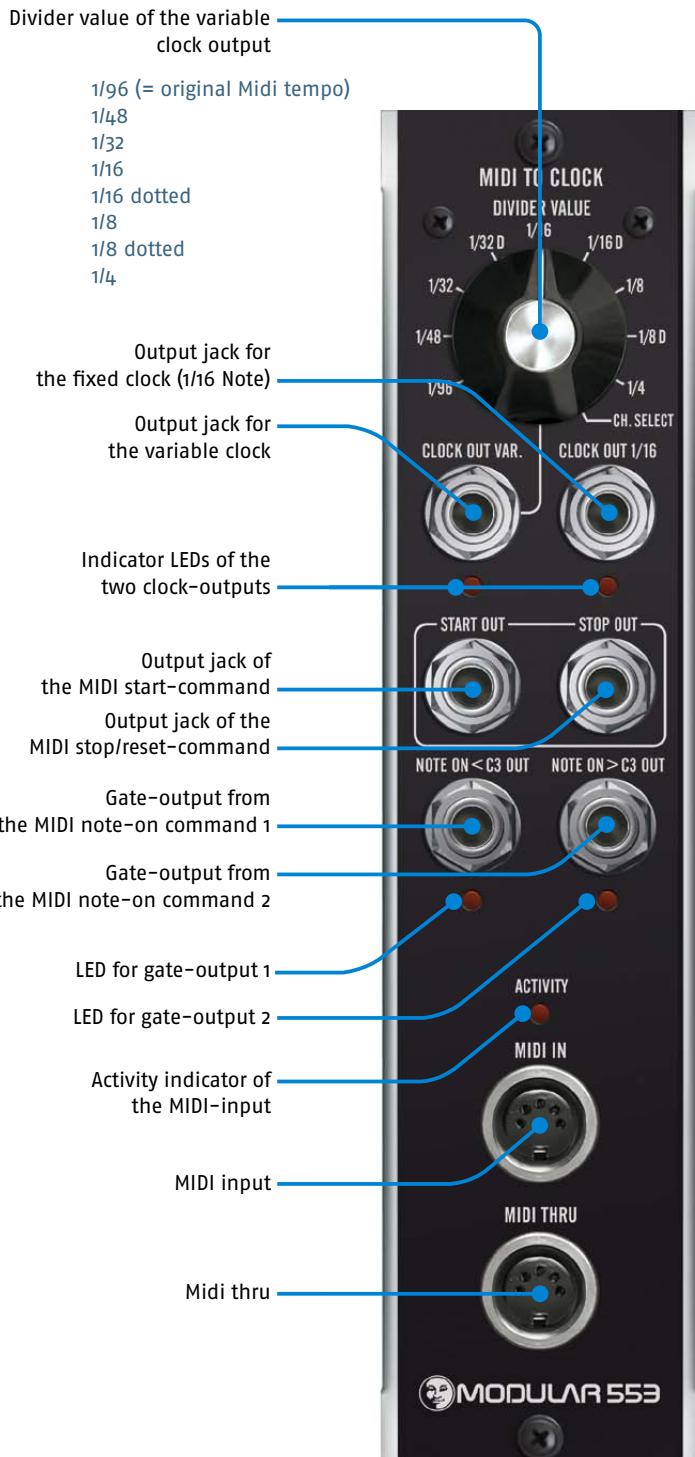


553

MIDI TO CLOCK SIGNAL CONVERTER



The M553 is a module, which converts a MIDI clock into analog clock and gate-signals, to synchronize e. g. analog step-sequencers to MIDI-hardware- or software-sequencers.

The MIDI clock (MIDI real time message) has a native resolution of 1/96 notes (24 ticks per quarter note) of which the M553 derives the following signals:

Variable Clock

The divider value of the left clock-output can selected among the MIDI original clock (1/96) and these fractions:

- 1/48
- 1/32 dotted
- 1/32
- 1/16 dotted
- 1/16
- 1/8 dotted
- 1/8
- 1/4

Fixed Clock

The right clock-output supplies a fixed clock signal, divided down to 1/16 notes.

Start/Stop

Whenever the MIDI device puts out start- and/or stop/reset-commands, these jacks supply relevant trigger-signals to e. g.

- control an analog sequencer via suitable inputs
- or reset an analog sequencer
- skip notes, trigger switches etc.

Note-on

Both „Note-on > C3“ and „Note-on < C3“ jacks supply gate signals, derived from MIDI note-on commands. This way the user can utilize one ordinary MIDI-track in a MIDI (software-)sequencer to create two streams of defined trigger signals, to be used – via the M553 – to synchronize/control analog equipment.

The left output generates a gate signal, whenever a MIDI note-on command below C3 (= MIDI note number 1-59) reaches

the module. The right output reacts accordingly, if a note-on command of C3 or above (= MIDI note number 60-127) arrives in the M553's input.

These „note-on to gate“ activities work in parallel to the „normal“ MIDI to clock conversion.

Midi-Channel

To select the MIDI channel (for the „note-on to gate“ function): Dial the rotary switch to the „channel select“ position and initiate a MIDI-channel message (e. g. strike a note on a keyboard); the module sets itself to the most recently received MIDI channel (this setting is saved even if the unit is switched off).

553

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